of lumens in communication with the exterior of the structure at said proximal and distal portions.

46. (New) The method of claim 1 wherein the heat exchange catheter comprises

an elongate structure;

a heat exchange balloon portion along said elongate structure, said structure further defining a plurality of heat exchange fluid flow lumens in communication with said heat exchange balloon portion, said heat exchange fluid flow lumens providing a path for circulation of heat exchange fluid from the exterior of the structure at said proximal end through said heat exchange balloon portion.

B2

47. (New) The method of claim 1 wherein the heat exchange catheter comprises

an elongate structure;

at least one holding anchor engaged with the exterior of the elongate structure and including structure adapted to suturably affix the elongate structure to the patient.

48. (New) A method for treating stroke patients, comprising the acts of:

identifying a stroke patient for treatment;

advancing a heat exchange catheter into said patient wherein said heat exchange catheter is advanced into a central venous vein of said patient;

inducing hypothermia using said heat exchange catheter;

wherein the heat exchange catheter comprises

at least one substantially elongate structure adapted for use as a central venous catheter and configured for establishing central venous access, said structure having a proximal portion and a distal portion and defining a plurality of lumens in communication with the exterior of the structure at said proximal and distal portions;

a heat exchange balloon portion along said elongate structure, said structure further defining a plurality of heat exchange fluid flow lumens in communication with said heat exchange balloon portion, said heat exchange fluid flow lumens providing a path for circulation of heat exchange fluid from the exterior of the structure at said proximal end through said heat exchange balloon portion; and

at least one anchor suture engaged with the exterior of the elongate structure and including structure adapted to suturably affix the elongate structure to the patient.